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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,155	10/01/2003	Hui-Chuan Hung	67,200-1114	8165
75	90 10/02/2006		EXAMINER	
TUNG & ASSOCIATES			CHAN, EMILY Y	
Suite 120 838 W. Long Lake Road			ART UNIT	PAPER NUMBER
Bloomfield Hill			2829	
			DATE MAILED: 10/02/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/677,155	HUNG, HUI-CHU	HUNG, HUI-CHUAN			
Office Action Summary	Examiner	Art Unit				
	Emily Y. Chan	2829				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MO. cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 Ju	ıly 2006.					
<u></u>	action is non-final.					
· /						
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.	•				
5) Claim(s) <u>9-20</u> is/are allowed.						
6) Claim(s) <u>1-5,9-12,16,17,19 and 20</u> is/are reject	ted.					
7) Claim(s) <u>6-8,13-15 and 18</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		·				
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 01 October 2003 is/are	: a)⊠ accepted or b)□	objected to by the Examir	ner.			
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attache	ed Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
 Certified copies of the priority document 						
2. Certified copies of the priority document						
· · · · · · · · · · · · · · · · · · ·	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea		t received				
* See the attached detailed Office action for a list	of the certified copies no	t received.				
•						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of	Informal Patent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 9-12, 16-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swart US Patent No. 6,268,719.

With respect to the claim 1, Swart ('719) expressly discloses an apparatus (see Figs. 1-9) for electrically testing a microelectronic product (16) as claimed, comprising:

An electrical test head (see fig. 8, test probes 82) to which is mated a microelectronic product (16) for electrically testing the microelectronic product (16); and

A movable electrical probe tip (see Fig. 2, 14) separately positionable from the electrical test head (82).

The difference between the claim invention and Swart ('719)'s reference is that Swart ('719) does not specify that both his test head (82) and movable electrical probe tip (14) operate simultaneously; however, since Swart ('719) discloses that both his test head (82) and movable electrical probe tip (14) are in a scan test machine 210 which is controlled by a computer terminal 72, it would have been to one of ordinary skill in the at that both his test head (82) and movable electrical probe tip (14) can be controlled by the computer terminal 72 for performing the testing operation simultaneously as claimed.

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product (16) is semiconductor product (circuit board).

With respect to the claim 3, Swart ('719)'s microelectronic product (16) can be a ceramic substrate.

With respect to the claim 2, Swart ('719) discloses that his microelectronic

With respect to the claim 4, Swart ('719)'s microelectronic product (16) can be an optoelectronic product.

With respect to the claim 5, Swart ('719) discloses a controller (72).

With respect to the method claims 9-12 and 16-17 and 19-20, since Swart ('719) teach the claimed apparatus, it would have been obvious to one of ordinary skill in the art that when using the apparatus of Swart ('719), the claimed steps such as providing an electrical test apparatus and sequentially movable positioning the electrical probe tip to sequential positions would have been expected to be performed (see Col. 6, lines 40-52 "the wiper brush successively contacts the test sides on the unit under test").

Allowable Subject Matter

Claims 6-8, 13-15 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 6,13 and 18 are indicated allowable because the examiner found that the prior art in the record, taken alone or in combination does not disclose an apparatus and a method for electrical testing comprising the radiation beam source positioned with

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respect to the electrical probe tip such as to simultaneously radiation stress the portion of the electrical product other than the electrical contact portion of the microelectronic product as shown by Fig. 5.Claims 7-8 and 14-15 are dependent on claims 6 and 13 respectively and are indicated allowable accordingly.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Furukawa et al US Patent No. 7,071,713 disclose a probe navigation device as claimed (see Figs).

Tanioka et al US publication No. 2002/0053917 disclose a probe structure comprising probe pin (3) and testing board (see Figs).

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Blackwood US Patent No. 6,747,464 discloses an integrated circuit test

apparatus (see Fig. 1) comprising a probe tip (40) and an optical scanning mechanism

(20).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Emily Y. Chan whose telephone number is 571-272-

1956. The examiner can normally be reached on 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ha T Nguyen can be reached on 571-272-1678. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EC 9/26/05 VINH NGUYEN PRIMARY EXAMINER

09/27/06

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